

20. DEC. 2001 17.00

NEWBURN ELLIS CAMBRIDGE:1

FEB 01 2002

44 20 7323 1331

19 Dec '01 11 NO. 8498 P.C. 3.

Docket No. 256602000500

Client Ref. 5924816

#3

PATENT & DECLARATION FOR UTILITY PATENT APPLICATION

COPY OF PA
ORIGINALLY FI

AS A BELOW-NAMED INVENTOR, I HEREBY DECLARE THAT:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled: **CRYSTAL STRUCTURE OF THE 30S RIBOSOME AND ITS USE**, the specification of which is attached hereto unless the following box is checked:

was filed on July 13, 2001 as United States Application Serial No. 09/904,779.

I HEREBY STATE THAT I HAVE REVIEWED AND UNDERSTAND THE CONTENTS OF THE ABOVE-IDENTIFIED SPECIFICATION, INCLUDING THE CLAIMS, AS AMENDED BY ANY AMENDMENT REFERRED TO ABOVE.

I acknowledge the duty to disclose information which is material to the patentability as defined in 37 C.F.R. § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT International application which designated at least one country other than the United States listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or PCT International application having a filing date before that of the application on which priority is claimed:

Application No.	Country	Date of Filing (day/month/year)	Priority Claimed?
0017376.5	United Kingdom	July 14, 2000	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
0022943.5	United Kingdom	September 19, 2000	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

I hereby claim benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

Application Serial No.	Filing Date

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s), or § 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. § 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application.

Application Serial No.	Filing Date	Status
		<input type="checkbox"/> Patented <input type="checkbox"/> Pending <input type="checkbox"/> Abandoned

4 20 7323 1331

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under § 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

29/11/01

Date

V. Ramakrishnan

Name:	Venkatesan RAMAKRISHNAN
Residence:	Cambridge, United Kingdom
Citizenship:	United States
Post Office Address:	MRC Laboratory of Molecular Biology Structural Studies Division Hills Road Cambridge, CB2 2QH United Kingdom

29/11/01

Date

Name:	Oleev Ligeskov BRODERSEN
Residence:	Cambridge, United Kingdom
Citizenship:	Denmark
Post Office Address:	MRC Laboratory of Molecular Biology Structural Studies Division Hills Road Cambridge, CB2 2QH United Kingdom

29/11/01

Date

Andrew Carter

Name:	Andrew Philip CARTER
Residence:	Cambridge, United Kingdom
Citizenship:	Great Britain
Post Office Address:	MRC Laboratory of Molecular Biology Structural Studies Division Hills Road Cambridge, CB2 2QH United Kingdom

Date

Name:	Brian Thomas WIMBERLY
Residence:	Kalamazoo, Michigan
Citizenship:	United States
Post Office Address:	3814 Grecian Circle Kalamazoo, Michigan 49008

Date

Name:	William Melvin CLEMONS, Jr.
Residence:	Boston, Massachusetts
Citizenship:	United States
Post Office Address:	Harvard Medical School Department of Cell Biology LHRBB-612 240 Longwood Avenue Boston, Massachusetts 02115-6091

PATENT
Docket No. 256602000500
Client Ref. 5924816



COPY OF PAF
ORIGINALLY FILLED

DECLARATION FOR UTILITY PATENT APPLICATION

AS A BELOW-NAMED INVENTOR, I HEREBY DECLARE THAT:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled: **CRYSTAL STRUCTURE OF THE 30S RIBOSOME AND ITS USE**, the specification of which is attached hereto unless the following box is checked:

was filed on July 13, 2001 as United States Application Serial No. 09/904,779.

I HEREBY STATE THAT I HAVE REVIEWED AND UNDERSTAND THE CONTENTS OF THE ABOVE-IDENTIFIED SPECIFICATION, INCLUDING THE CLAIMS, AS AMENDED BY ANY AMENDMENT REFERRED TO ABOVE.

I acknowledge the duty to disclose information which is material to the patentability as defined in 37 C.F.R. § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT International application which designated at least one country other than the United States listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or PCT International application having a filing date before that of the application on which priority is claimed:

Priority Application Number	Priority Country	Priority Date	Priority Certificate
0017376.5	United Kingdom	July 14, 2000	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
0022943.5	United Kingdom	September 19, 2000	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

I hereby claim benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

Provisional Application Number	Priority Date

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s), or § 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. § 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application.

Application Number	Status	Patented	Pending	Abandoned
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under § 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Date	Name: Venkatraman RAMAKRISHNAN Residence: Cambridge, United Kingdom Citizenship: United States Post Office Address: MRC Laboratory of Molecular Biology Structural Studies Division Hills Road Cambridge, CB2 2QH United Kingdom
------	---

Date	Name: Ditlev Egeskov BRØDERSEN Residence: Cambridge, United Kingdom Citizenship: Denmark Post Office Address: MRC Laboratory of Molecular Biology Structural Studies Division Hills Road Cambridge, CB2 2QH United Kingdom
------	---

Date	Name: Andrew Philip CARTER Residence: Cambridge, United Kingdom Citizenship: Great Britain Post Office Address: MRC Laboratory of Molecular Biology Structural Studies Division Hills Road Cambridge, CB2 2QH United Kingdom
------	---

5 Dec. 2001

Date	Name: Brian Thomas WIMBERLY Residence: Kalamazoo, Michigan Citizenship: United States Post Office Address: 2000 S. 12th St. Kalamazoo, Michigan 49008
------	---

8390 S. 12th St.
Portage MI 49024

Date	Name: William Melvin CLEMONS, Jr. Residence: Boston, Massachusetts Citizenship: United States Post Office Address: Harvard Medical School Department of Cell Biology LHRBB-612 240 Longwood Avenue Boston, Massachusetts 02115-6091
------	---

20 DEC 2001 117 08

MENBURN ELLIS CAMBRIDGE:1

19 Dec '01 11 NO. 8498 P. CP. 3

FEB 01 2002

4 20 7323 1331

ocket N. 256602000500

Client Ref. S924816

PATENT & TRADEMARK OFFICE

DECLARATION FOR UTILITY PATENT APPLICATION

COPY OF PAPER
ORIGINALLY FILED

AS A BELOW-NAMED INVENTOR, I HEREBY DECLARE THAT:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled: **CRYSTAL STRUCTURE OF THE 30S RIBOSOME AND ITS USE**, the specification of which is attached hereto unless the following box is checked:

was filed on July 13, 2001 as United States Application Serial No. 09/904,779.

I HEREBY STATE THAT I HAVE REVIEWED AND UNDERSTAND THE CONTENTS OF THE ABOVE-IDENTIFIED SPECIFICATION, INCLUDING THE CLAIMS, AS AMENDED BY ANY AMENDMENT REFERRED TO ABOVE.

I acknowledge the duty to disclose information which is material to the patentability as defined in 37 C.F.R. § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT International application which designated at least one country other than the United States listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or PCT International application having a filing date before that of the application on which priority is claimed:

Application No.	Country	Date of Filing (day/month/year)	Priority Claimed?
0017376.5	United Kingdom	July 14, 2000	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
0022943.5	United Kingdom	September 19, 2000	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

I hereby claim benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

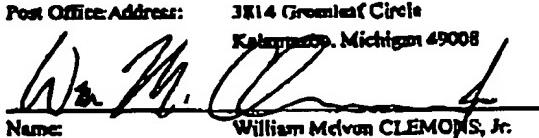
Application Serial No.	Filing Date

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s), or § 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. § 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application.

Application Serial No.	Filing Date	Status
		<input type="checkbox"/> Patented <input type="checkbox"/> Pending <input type="checkbox"/> Abandoned

4 20 7323 1331

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under § 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Date	Name: Venkatakrishnan Residence: Cambridge, United Kingdom Citizenship: United States Post Office Address: MRC Laboratory of Molecular Biology Structural Studies Division Hills Road Cambridge, CB2 2QH United Kingdom
Date	Name: Dilip Egaskov BRODERSEN Residence: Cambridge, United Kingdom Citizenship: Denmark Post Office Address: MRC Laboratory of Molecular Biology Structural Studies Division Hills Road Cambridge, CB2 2QH United Kingdom
Date	Name: Andrew Philip CARTER Residence: Cambridge, United Kingdom Citizenship: Great Britain Post Office Address: MRC Laboratory of Molecular Biology Structural Studies Division Hills Road Cambridge, CB2 2QH United Kingdom
Date	Name: Brian Thomas WIMBERLY Residence: Kalamazoo, Michigan Citizenship: United States Post Office Address: 3814 Greenleaf Circle Kalamazoo, Michigan 49008 
<u>10 Dec 2001</u> Date	Name: William Melvin CLEMONS, Jr. Residence: Boston, Massachusetts Citizenship: United States Post Office Address: Harvard Medical School Department of Cell Biology LHRBB-612 240 Longwood Avenue Boston, Massachusetts 02115-6091 